

Chemistry required AOs

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S3 term 1

1. The learner appreciates how atoms are composed of fundamental particles and how molecules and compounds are composed of atoms.
2. The learner appreciates the diversity of organic carbon compounds including alkanes, alkenes, alcohols and fatty acids.

S3 term 2

1. The learner should be able to use formulae and equations to determine quantities of matter.
2. The learner appreciates that in a chemical reaction, starting materials of reactants interact to form products.

S3 term 3

1. The learner understands the effects of external condition on the rate of reaction and how this can be explained in terms of a kinetic particle model.
2. The learner understands the origins of fossil fuels and appreciates their importance as an energy source.

S4 term 1

1. The learner appreciates the principles behind some industrial processes and the importance of the products formed.
2. The learner understands oxidation and reduction in terms of gain or loss of oxygen, and in terms of electron transfer and he/she appreciates that the 2 processes always occur together.

3. 2 → repeated

S4 term 2

1. The learner appreciates the diversity of properties of elements and how these properties change across the periods and groups of the periodic table.
2. The learner appreciates that in any chemical reaction, energy is lost or gained and this is usually in form of heat.

END

Classic